

AUG 30 1988

Mr. Bruce Lee Jernigan
Divisional Vice President
CERCLA Activities
Browning-Ferris Industries
P.O. Box 3151
Houston, Texas 77253

Re: Browning-Ferris Industries
Ponce, Puerto Rico
EPA I.D. Number: PRD980594709

Dear Mr. Jernigan:

The Environmental Protection Agency (EPA) has reviewed both the June 29 and August 11, 1988 submittals regarding the protective filing request for the Ponce Municipal Landfill Cell #1. EPA has determined, based on the evidence submitted, that the Landfill Cell #1 was never used to treat, store, or dispose of any hazardous waste. In addition, the evidence submitted (e.g., aerial photographs and boring logs) showed that the land was virgin terrain and never disturbed before November 1983, at which time construction operations commenced for Landfill Cell #1. Since a Part A application was submitted for the facility including Landfill Cell #1, interim status was granted. Therefore, in order to reclassify this unit, complete background documentation had to be provided. BFI has submitted to the Agency all the necessary documents required for this determination. A revised Part A application must now be submitted deleting this unit. The only unit which should be listed in the revised Part A application is the co-disposal area which is currently undergoing closure.

In addition, EPA is currently reviewing the July 22, 1988 co-disposal investigation workplan. This investigation, along with past submittals should be used in the development of the post-closure permit application. As a reminder, your post-closure permit application is due to the Agency on January 12, 1989. We are available to discuss any problems you may encounter in the development of your application.

Should you have any questions, please contact Douglas Pocze, of my staff,
at (212) 264-8690.

Sincerely yours,

Stanley Siegel, Chief
Hazardous Waste Facilities Branch

cc: Marina Bouley, BFI
Jose Cepeda, Goldman and Antonetti
Randy Sullivan, Golder Associates, Inc.

bcc: Douglas Pocze, 2AWM-HWF
Stephen Knight, 2AWM-HWF ✓
Stanley Siegel, 2AWM-HWF
Angel Chang, 2AWM-HWF
Laura Livingston, 2PAB
John Gorman, 2AWM-HWF
Amy Chester, 2ORC



Golder Associates, Inc.

CONSULTING GEOTECHNICAL AND MINING ENGINEERS

REQUEST FOR PROTECTION
FILING STATUS ON CELL #1
PONCE MUNICIPAL LANDFILL
EPA ID# PRD 980-594-790

25

CA 88-08/12/88

Submitted to:

Stanley Siegel, Chief
Hazardous Waste Facilities Branch
U.S. Environmental Protection Agency
Region II - 26 Federal Plaza
New York, New York 10278

DISTRIBUTION:

3 Copies - U.S. EPA
2 Copies - BFI of Ponce
2 Copies - Golder Associates Inc.

August 1988

883-3643



Golder Associates, Inc.

CONSULTING GEOTECHNICAL AND MINING ENGINEERS

August 12, 1988

883-3643

Stanley Siegel, Chief
Hazardous Waste Facilities Branch
U.S. Environmental Protection Agency
Region II - 26 Federal Plaza
New York, New York 10278

RE: REQUEST FOR PROTECTIVE FILING STATUS ON CELL #1
PONCE MUNICIPAL LANDFILL
EPA ID# PRD 980-594-790

Dear Mr. Siegel:

We are writing at the request of BFI of Ponce, Inc. (BFIP) in response to your July 25, 1988 letter to J. Cepeda. Responses to specific items in the letter are provided below. Three copies of the letter and enclosures are enclosed, as requested by Doug Pocze.

Paragraph 2 of your letter requested that aerial photography of Cell #1 be submitted along with supporting descriptions of the photography. In response, three photographs and a drawing depicting the site are included as Enclosures 1 through 4. All the photographs identify the location of Cell #1 and include a north arrow. Enclosure 1 is a vertical photograph (1 to 8200 scale) taken on March 23, 1983, which depicts the site property boundaries. Enclosure 2 is Law Engineering's interpretation of Enclosure 1, which was submitted as part of the Part B Permit Application on May 25, 1984. Enclosure 3 is a vertical photograph (1 to 7200 scale) of the site taken on February 9, 1988. Enclosure 4 is an oblique photograph (1 to 4400 scale) of the site taken on May 18, 1988.

Regarding Paragraph 3 of your letter, BFIP wishes to clarify Rick Good's affidavit with regards to the distance between Cell #1 and the nearest waste. Borings C-33 and C-40 (Enclosures 5 and 6), both located approximately 25m (80 ft.) from the top of the inside slope of Cell #1, are the closest borings which encountered landfill waste materials (see Enclosure 7, Location of Soil Borings; Ref.: Golder Associates Inc., Hydrogeologic Review, July, 1988). Enclosure 8, Summary of Borings, a table previously submitted on November 3, 1983 by Law Engineering Testing Co. in Geotechnical Exploration Final Report, indicates thicknesses of 9 and >2.5 feet for borings C-33 and C-40, respectively.

250' (give or take) measured from base of slope on inside of Cell #1

Paragraph 4 of your letter requested further explanation of BFIP's conclusion that no waste was present at the locations of C-41, C-42, C-44, C-50, C-65 and C-67. An examination of the borehole log descriptions for these boreholes indicates that residual soils (i.e., soils which have been formed in-place due to weathering/decomposition of the parent bedrock) were encountered from the ground surface to boring termination (Enclosures 9 through 14, respectively). The presence of the residual soils, as opposed to fill or waste, indicates no waste had been placed at the borehole locations. Consequently, deeper drilling was not required. In addition, borings C-39, C-84, C-85 and C-87 (Enclosures 15 through 18, respectively), which are adjacent to Cell #1, indicate no waste has been placed at the borehole locations.

Paragraph 5 requested the submittal of dated construction diagrams and/or well boring logs for MW-7 or C-88. Boring logs for both of these boreholes are included as Enclosures 19 and 20 for your review.

Please feel free to contact us if additional information is needed or if we can be of help in any way.

Very truly yours,

GOLDER ASSOCIATES INC.



Scott D. Sumner
Geological Engineer



W. Randall Sullivan, P.E.
Associate

SDS:WRS:rcs

Enclosures

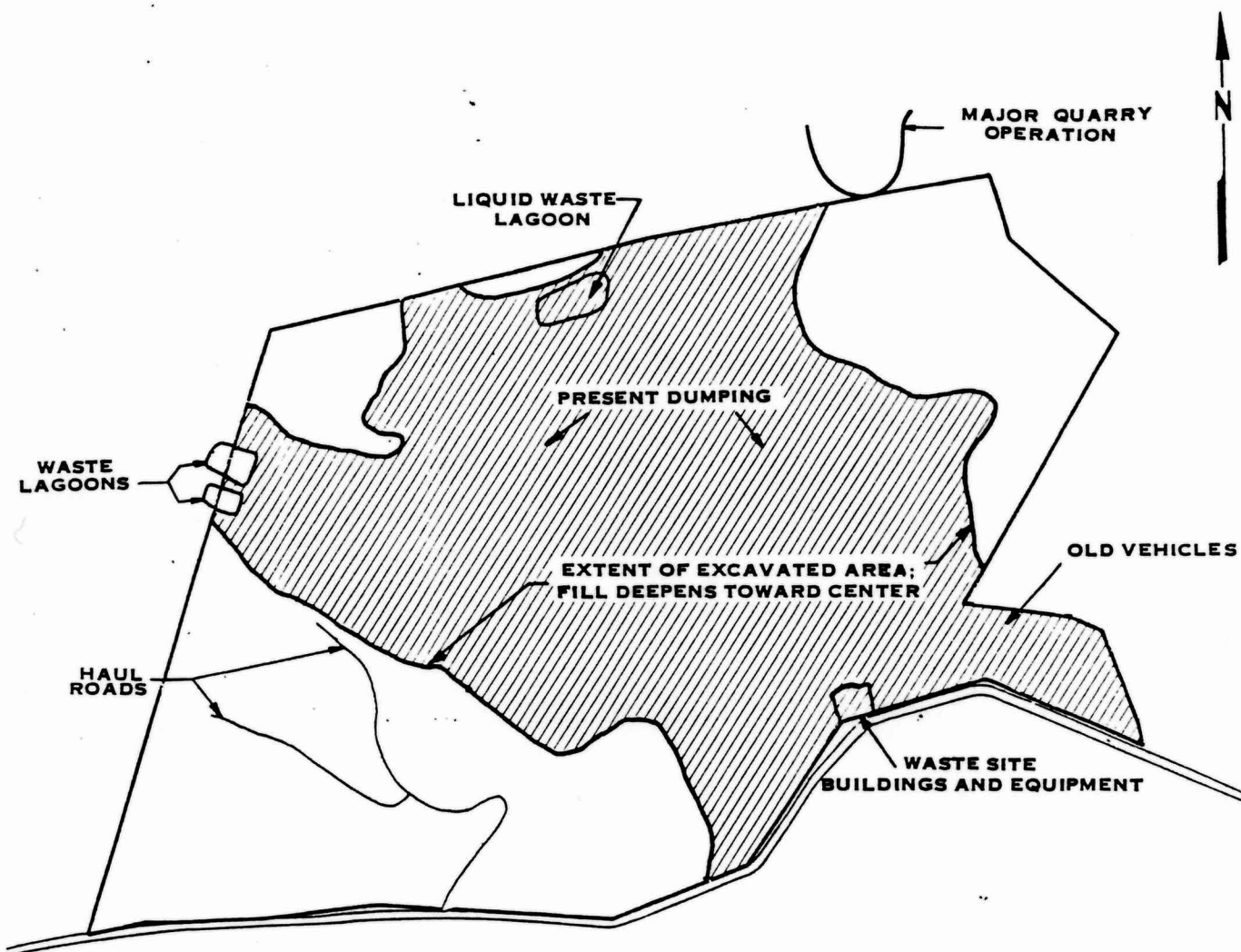
cc: Douglas Pocze w/o enclosures
Marina Bouley
Bruce Jernigan w/o enclosures
Jose Cepeda



APPROXIMATE LOCATION
OF FUTURE CELL #1

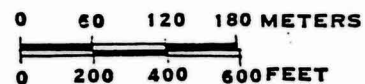
Date of Photo: 3-23-83
Photo No: 244-13
Figure No: A-7b

ENCLOSURE 1



NOTES:

- CONTINUED EXPANSION OF QUARRYING AND DUMPING OPERATIONS
- ESTABLISHMENT OF SITE BUILDING AND EQUIPMENT CENTER



ENCLOSURE 2

 LAW ENGINEERING TESTING COMPANY MARIETTA, GEORGIA			
CECOS INTERNATIONAL, INC. BUFFALO, NEW YORK			
	BY	DATE	PONCE WASTE FACILITY INTERPRETATION OF SURFACE FEATURES FROM AERIAL PHOTOGRAPH TAKEN 3/23/1983 JOB NO. GS3223 FIGURE A-7 a
DRAWN	RLA	7/24/83	
CHECKED	MP	7/26/83	
APPROVED	LSK	7/22/83	

PONCE 2 09 88

1 7200 LOWE ENGRS 88 01 No 3



CELL #1

ENCLOSURE 3

SUMMARY OF BORINGS

<u>BORING NUMBER</u>	<u>THICKNESS OF WASTE (FT)</u>	<u>TOTAL DEPTH OF BORING</u>
C-22	9.0	13.5
C-23	21.0	30.0
C-24	7.0	13.5
C-25	13.0	18.0
C-26	18.0	24.0
C-27	14.5	19.0
C-28	26.5	30.5
C-29	9.0	15.5
C-30	6.5	13.5
C-31	4.0	5.0
C-32	19.5	25.5
C-33	9.0	15.5
C-34	13.0	20.0
C-35	>2.5	2.5
C-36	>4.0	4.0
C-37	14.0	15.5
C-38	7.5	10.5
C-39	-0-	5.5
C-40	>2.5	2.5
C-41	-0-	4.5
C-42	-0-	4.5
C-43	3.5	8.5
C-44	-0-	5.5
C-45	17.0	23.5
C-46	48.0	54.5
C-47	5.5	10.0
C-48	25.0	30.5
C-49	13.0	19.5
C-50	-0-	5.0

SUMMARY OF BORINGS

(CONTINUED)

<u>BORING NUMBER</u>	<u>THICKNESS OF WASTE (FT)</u>	<u>TOTAL DEPTH OF BORING</u>
C-51	1.5	5.5
C-52	Not Drilled	
C-53	53.0	60.5
C-54	54.0	70.5
C-55	51.0	60.5
C-56	39.0	45.5
C-57	Not Drilled	
C-58	27.5	40.5
C-59	>6.0	6.0
C-59A	49.0	65.5
C-60	41.0	50.5
C-61	17.0	30.5
C-62	>13.0	13.0
C-62A	24.5	40.5
C-63	30.0	40.5
C-64	28.5	34.8
C-65	-0-	15.0
C-66	13.0	25.0
C-67	-0-	10.0
C-68	Not Drilled	
C-69	Not Drilled	
C-70	Not Drilled	
C-71	4.0	14.8
C-72	13.5	20.5
C-73	15.5	24.8
C-74	28.0	35.5
C-75	22.0	29.1
C-76	9.0	15.0
C-77	17.5	25.5
C-78	14.6	20.4
C-79	Not Drilled	
C-80	Not Drilled	

1943
1944
1945

1946
1947
1948

1949
1950
1951

1952
1953
1954

1955
1956
1957

1958
1959
1960

1961
1962
1963

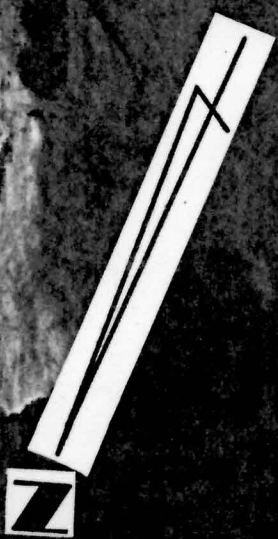
1964
1965
1966

1967
1968
1969

1970
1971
1972

CELL #1

ENCLOSURE 4



TEST BORING RECORD

REMARKS:

DRILLED BY CST
LOGGED BY BLJ
CHECKED BY RAC

BORING NUMBER C-33
DATE STARTED 5-20-83
DATE COMPLETED 5-20-83
JOB NUMBER GS3223

TEST BORING RECORD

REMARKS:

DRILLED BY CST
LOGGED BY BLJ
CHECKED BY RAC

BORING NUMBER	C-40
DATE STARTED	5-23-83
DATE COMPLETED	5-23-83
JOB NUMBER	GS3223

SUMMARY OF BORINGS
(CONTINUED)

<u>BORING NUMBER</u>	<u>THICKNESS OF WASTE (FT)</u>	<u>TOTAL DEPTH OF BORING</u>
C-81	29.0	35.5
C-82	7.0	15.5
C-83	6.0	15.25
C-84	-0-	30.0
C-85	-0-	28.5
C-86	Not Drilled	
C-87	-0-	80.5

ENCLOSURE 9

TEST BORING RECORD

[illegible]

REMARKS:

SURFACE ELEVATION=67.1 METERS
BORING GROUTED TO GROUND
SURFACE ON COMPLETION

DRILLED BY CST
LOGGED BY BLJ
CHECKED BY RAC

BORING NUMBER C-41
DATE STARTED 5-23-83
DATE COMPLETED 5-23-83
JOB NUMBER GS3223

ENCLOSURE 10

TEST BORING RECORD

[illegible]

REMARKS:

SURFACE ELEVATION=66.7 METERS
BORING GROUTED TO GROUND
SURFACE ON COMPLETION

DRILLED BY CST
LOGGED BY BLJ
CHECKED BY PAC

BORING NUMBER C-42
DATE STARTED 5-23-83
DATE COMPLETED 5-23-83
JOB NUMBER CS3223

ENCLOSURE 11

TEST BORING RECORD

DEPTH		DESCRIPTION	FORMATION	PENETRATION-BLOWS PER FOOT										
ELEV.(FT)	FEET			0	5	10	15	20	30	40	60	80	100	
267.1	5.5	RESIDUAL - HARD PALE YELLOW ORANGE SLIGHTLY FINE SANDY SILTY CLAY.	JUANA DIAZ											
262.1														
.		BORING TERMINATED AT 5.5 FEET.												
257.1														

REMARKS:

SURFACE ELEVATION=81.4 METERS
 BORING GROUTED TO GROUND
 SURFACE ON COMPLETION

DRILLED BY CST
 LOGGED BY BLJ
 CHECKED BY RAC

BORING NUMBER C-44
 DATE STARTED 5-24-83
 DATE COMPLETED 5-24-83
 JOB NUMBER GS3223

[illegible]

BORING NUMBER C-50
DATE STARTED * 5-27-83
DATE COMPLETED 5-27-83
JOB NUMBER GS3223

ELEV. (FT.)		DEPTH FEET	DESCRIPTION	FORMATION	PENETRATION-BLOWS PER FOOT										
					0	5	10	15	20	30	40	60	80	100	
241.1			RESIDUAL-PALE YELLOW ORANGE CLAYEY VERY SANDY SILT. OCCASIONAL WELL CEMENTED ZONE.	JUANA DIAZ											
236.1	3.0	PALE YELLOW ORANGE SLIGHTLY FINE SANDY CLAYEY SILT AND SILTY CLAY.													
231.1															
226.1	13.0	PALE YELLOW ORANGE CLAYEY VERY SANDY SILT. NUMEROUS CEMENTED ZONES.													
	15.0	BORING TERMINATED AT 15.0'													
221.1															

BORING NUMBER	C-65
DATE STARTED	7-26-83
DATE COMPLETED	7-26-83
JOB NUMBER	GS3223

ENCLOSURE 14 TEST BORING RECORD

ELEV. (FT.) FEET		DESCRIPTION	FORMATION	PENETRATION-BLOWS PER FOOT										
219.8		RESIDUAL-VERY STIFF TO VERY HARD PALE YELLOW ORANGE FINE TO MEDIUM SANDY SILTY CLAY. ABUNDANT ORANGE MOTTILING. OCCASIONAL WELL CEMENTED ZONE.	JUANA DIAZ											
214.8														
	8.0													
209.8	10.0	VERY DENSE PALE YELLOW ORANGE SILTY CLAYEY FINE TO MEDIUM SAND.												
		BORING TERMINATED AT 10.0'												
204.8														

108
10"

REMARKS:

Elevation = 67.0 meters
(The elevation of this boring
was scaled from topographic
map)
Boring grouted to ground
surface on completion

DRILLED BY QA
LOGGED BY RAC
CHECKED BY LDW

BORING NUMBER C-67
DATE STARTED 7-7-83
DATE COMPLETED 7-7-83
JOB NUMBER GS3223

ENCLOSURE 15
TEST BORING RECORD

[illegible]

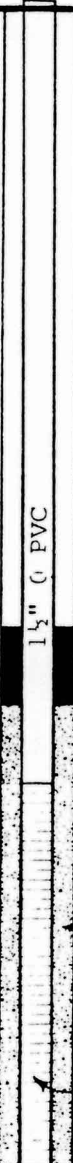
REMARKS:

SURFACE ELEVATION=71.1 METERS
BORING GROUTED TO GROUND
SURFACE ON COMPLETION:

DRILLED BY CST
LOGGED BY BLJ
CHECKED BY RAC

BORING NUMBER C-39
DATE STARTED 5-23-83
DATE COMPLETED 5-23-83
JOB NUMBER GS3023

ENCLOSURE 16
TEST BORING RECORD

DEPTH		DESCRIPTION	PENETRATION-BLOWS PER FOOT															
ELEV. (FT.)	FEET		0	5	10	15	20	30	40	60	80	100						
229.3	30.0	SAMPLE AT 24-25.5' IS VERY HARD PALE YELLOW ORANGE FINE SANDY SILTY MEDIUM TO HIGH PLASTICITY CLAY. OCCASIONAL ORANGE MOTTLING	JUANA DIAZ															
224.3																		
219.3																		
214.3																		
209.3																		
	30.0	BORING TERMINATED AT 30.0'			16.0													
204.3					18.0													
					20.0													
199.3					30.0													
194.3																		

JUANA DIAZ

1 1/2" O PVC

16.0
SEAL
18.0

20.0
SAND

SCREEN
30.0

REMARKS:
Elevation = 69.9 meters
(The elevation of this boring
was scaled from topographic
map)
Bit: 2-7/8 inch Tricone
Drilling Fluid: Water
Screen slotted by field
engineer using a hacksaw

DRILLED BY QA
LOGGED BY RAC
CHECKED BY LDW

BORING NUMBER C-84
DATE STARTED 7-12-83
DATE COMPLETED 7-14-83
JOB NUMBER GS3223

ENCLOSURE 17

TEST BORING RECORD

ELEV. (FT.)	DEPTH FEET	DESCRIPTION	FORMATION	U	PENETRATION-BLOWS PER FOOT									
203.4														
198.4														
193.4														
188.4														
183.4			JUANA DIAZ	1 1/2" PVC										
				SEAL	16.5									
					17.5									
					18.5									
178.4				SAND										
				SCREEN										
		SAMPLE AT 24-24.1' IS PALE YELLOW ORANGE SILTY FINE TO MEDIUM WELL CEMENTED SAND.												
173.4	28.5	BORING TERMINATED AT 28.5'			28.5									

REMARKS:

Elevation = 62.0 meters
(The elevation of this boring
was scaled from topographic
map)

Bit: 2-7/8 inch Tricone
Drilling Fluid: Water
Screen slotted by field
engineer using a hacksaw

DRILLED BY QA
LOGGED BY RAC
CHECKED BY LDW

BORING NUMBER C-85
DATE STARTED 7-14-83
DATE COMPLETED 7-14-83
JOB NUMBER GS3223

ENCLOSURE 18

TEST BORING RECORD

ELEV. (FT.)	DEPTH FEET	DESCRIPTION	FORMATION	PENETRATION BLOWS PER FOOT										
				0	5	10	15	20	30	40	60	60	100	
311.6		RESIDUAL - HARD TO VERY HARD PALE YELLOW ORANGE FINE SANDY SILTY CLAY. OCCASIONAL WELL CEMENTED ZONE. OCCASIONAL ORANGE MOTTLING.	PONCE											
306.6														80 6"
301.6														75 3"
296.6														75 5"
291.6		RESIDUAL - HARD TO VERY HARD PALE YELLOW ORANGE FINE SANDY SILTY CLAY. OCCASIONAL WELL CEMENTED ZONE. OCCASIONAL ORANGE MOTTLING.	JUANA DIAZ											
286.6														
281.6														
276.6														103 9"
271.6														90 10"

REMARKS:

Elevation = 95.0 meters
(The elevation of this boring
was scaled from topographic
map)

Boring grouted to ground
surface on completion.

DRILLED BY QA
LOGGED BY RAC
CHECKED BY LDW

BORING NUMBER C-87
DATE STARTED 7-19-83
DATE COMPLETED 7-20-83
JOB NUMBER GS3223

TEST BORING RECORD

ELEV. (FT.)		DEPTH FEET	DESCRIPTION	PENETRATION-BLOWS PER FOOT											
				0	5	10	15	20	30	40	60	80	100		
271.6			SAME AS ABOVE											90 10	
	42.0		VERY DENSE PALE YELLOW ORANGE SILTY CLAYEY FINE SAND. MODERATELY WELL CEMENTED.											106	
266.6															
	47.0		VERY HARD PALE YELLOW ORANGE VERY SANDY SILTY CLAY. CALCITE AT 55'. WELL CEMENTED BELOW 69'											193 19"	
261.6															
256.6														93 9"	
251.6														89 9"	
246.6														75 2"	
241.6														125 10"	
236.6														75 5"	
231.6	80.5													75 2"	
REMARKS:				BORING TERMINATED AT 80.5'											

JUANA DIAZ

REMARKS:

BORING TERMINATED AT 80.5'

DRILLED BY QA
 LOGGED BY RAC
 CHECKED BY LDW

BORING NUMBER C-87
 DATE STARTED 7-19-83
 DATE COMPLETED 7-20-83
 JOB NUMBER GS3223

TEST BORING RECORD

ELEV. FT	DEPTH FEET	DESCRIPTION	FORMATION	PENETRATION-BLOWS PER FOOT											
329.1	.8	VERY HARD GRAY TAN FINE SANDY SILTY CLAY WITH LIMESTONE--DISTURBED BY EMBANKMENT CUT	JUANA DIAZ												100/4"
324.1		VERY HARD TAN TO GRAY AND ORANGE FINE SANDY SILTY CLAY AND LIMESTONE SEAMS													100/3
319.1		POORLY CEMENTED 0.8' to 25'													80/3"
314.1															82/6"
309.1															
304.1															
	25			CORE NX	REC 0.2										
					REC 0.7										
					REC 0.7										
					REC 1.7										
299.1	30	TAN TO GRAY LIMESTONE WITH JOINTS HORIZONTALLY AND @ 45° JOINTED SURFACES ARE CLAY COVERED WITH IRON STAINING, OCCASIONAL POORLY CEMENTED SILTY CLAY SEAMS													100/1.5'
294.1	35	TAN TO GRAY LIMESTONE WITH JOINTS HORIZONTALLY AND AT 45°, JOINTED SURFACES ARE CLAY COVERED WITH IRON STAINING, MODERATELY WELL CEMENTED WITH OCCASIONAL SILTY CLAY SEAMS													
				CORE NX	REC 3.3										100/3
289.1	40	TAN TO GRAY LIMESTONE WITH HORIZONTAL JOINTS WITH CLAY COVERING ON JOINT SURFACES AND SOME IRON STAINING.													

REMARKS:

Coordinates

N: 19,297.66 M

E: 128,378.27 M

Drilled with air between depths 0 to 75'.

Drilled with water between depths 75' to 102'.

Boring grouted to surface upon completion.

DRILLED BY Caribbean STLOGGED BY MJCCHECKED BY LDWBORING NUMBER C-88DATE STARTED 3/15/84DATE COMPLETED 3/19/84JOB NUMBER GS 3223.55

TEST BORING RECORD

ELEV. FT	DEPTH FEET	DESCRIPTION	FORMATION	PENETRATION-BLOWS PER FOOT												
				0	5	10	15	20	30	40	60	80	100			
289.1	40	TAN TO GRAY LIMESTONE WITH HORIZONTAL JOINTS WITH CLAY COVERING ON JOINT SURFACES AND SOME IRON STAINING	JUANA DIAZ	CORE NX	REC 2.2'											
284.1	45	VERY HARD TAN FINE SANDY SILTY CLAY, POORLY CEMENTED, WITH LIMESTONE FRAGMENTS														90/5"
279.1																75/5"
274.1																
269.1																75/6"
264.1	61	VERY HARD FINE SANDY SILTY CLAY AND LIMESTONE WITH SOME IRON STAINING		CORE NX	REC 2.2'											
259.1																
254.1																
249.1		30														

REMARKS:

DRILLED BY Caribbean ST
 LOGGED BY MJC
 CHECKED BY LDW

BORING NUMBER C-88
 DATE STARTED 3/15/84
 DATE COMPLETED 3/19/84
 JOB NUMBER GS 3223.55

TEST BORING RECORD

[illegible]

REMARKS:

DRILLED BY Caribbean ST
LOGGED BY MJC
CHECKED BY LDW

BORING NUMBER C-88
DATE STARTED 3/15/84
DATE COMPLETED 3/19/84
JOB NUMBER GS 3222.55

ENCLOSURE 20

TEST BORING RECORD

ELEV. FT.	DEPTH FEET	STRATA DESCRIPTION	FORMATION	"N" VALUE	GAMMA GEOPHYSICAL LOG	WELL CONSTRUCTION DETAILS
303.6		NO SAMPLING FROM 0 TO 100 FEET.				
298.6						BOREHOLE WALL
293.6						
288.6						
283.6						
278.6						
273.6						
268.6			JUANA DIAZ			2-INCH I.D. PVC RISER PIPE
263.6						
258.6						
253.6						
248.6						
243.6						
238.6						
233.6						GROUT

REMARKS:

DRILLED BY Caribbean Soil Testing
 LOGGED BY M. Parker
 CHECKED BY _____

BORING NUMBER MW-7
 DATE STARTED 12/12/83
 DATE COMPLETED 12/22/83
 JOB NUMBER GS 3223

TEST BORING RECORD

ELEV. FT.	DEPTH FEET	STRATA DESCRIPTION	FORMATION VALUE	"N" VALUE	GAMMA GEOPHYSICAL LOG	WELL CONSTRUCTION DETAILS
233.6		NO SAMPLING FROM 0 TO 100 FEET.				
228.6						
223.6						
218.6						
213.6						
208.6						
203.6	100.0	VERY HARD LIGHT GREEN GREY FINE SANDY CLAYEY SILT.	75/6"			2-INCH I.D. PVC RISER PIPE
198.6			JUANA DIAZ			
193.6			100/4"			GROUT
188.6						
183.6			100/2"			
178.6						
173.6			100/5"			
168.6						
163.6			100/4.5"			

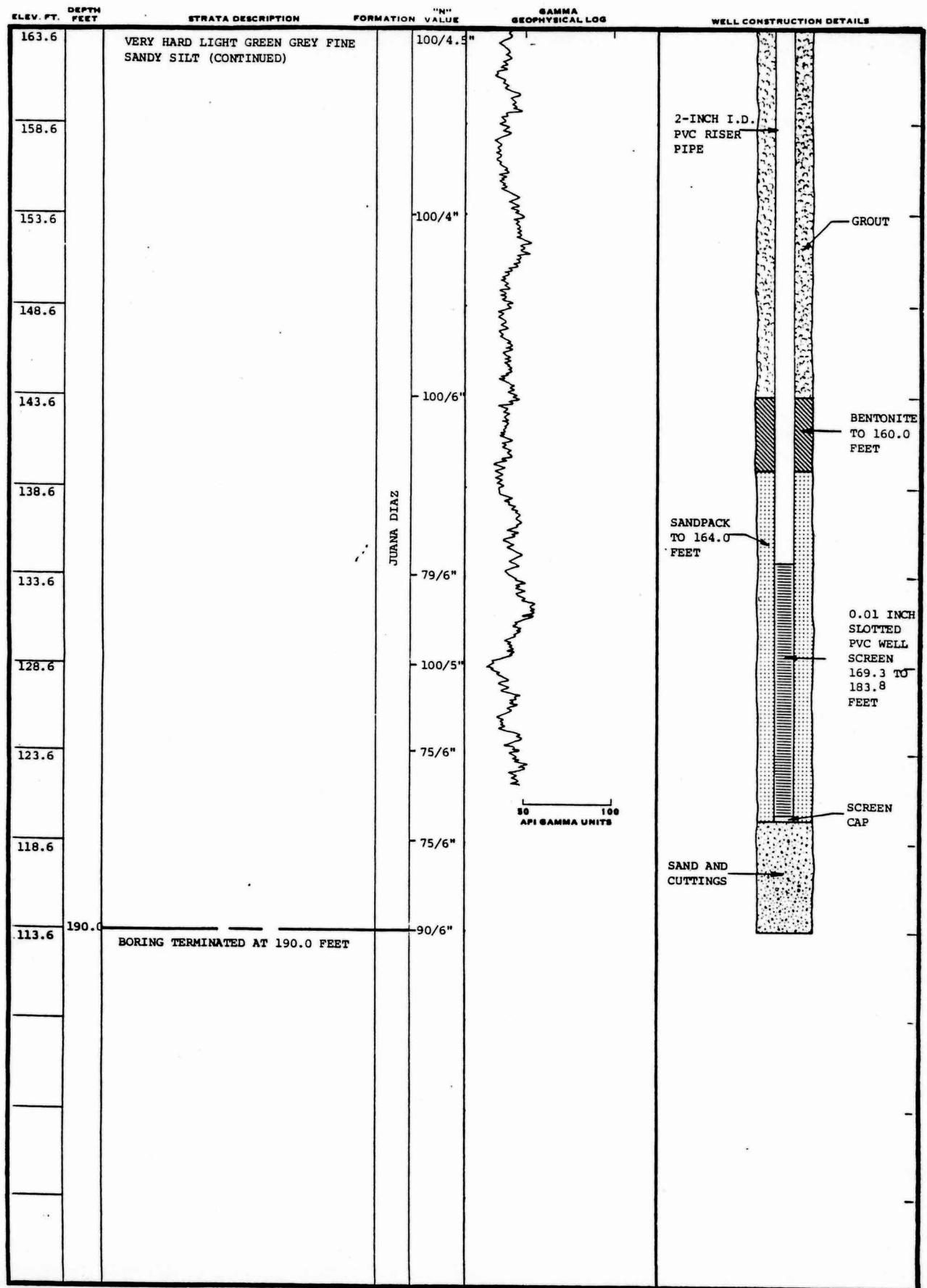
REMARKS:

(1) 3-18-84 Water Level

DRILLED BY Caribbean Soil Testing
 LOGGED BY M. Parker
 CHECKED BY _____

BORING NUMBER MW-7
 DATE STARTED 12/12/83
 DATE COMPLETED 12/22/83
 JOB NUMBER GS 3223

TEST BORING RECORD



REMARKS:

DRILLED BY Caribbean Soil Testing
 LOGGED BY M. Parker
 CHECKED BY _____

BORING NUMBER MW-7
 DATE STARTED 12/12/83
 DATE COMPLETED 12/22/83
 JOB NUMBER GS3223